

Form Approved
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HANTAINS NO CBI

90-890000408

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

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EPA Form 7710-52

PART	Α (	GENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	Con	repleted in response to the Federal Register Notice of $[1]2[2][2][8]9$
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[0]2]6]4]7]1]-[6]2]-[5]$
	ь.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule NA
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule NA
		CAS No. of chemical substance
		Name of chemical substance
	<del></del> .	
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Han	ufacturer
[_]		orter 2
	Pro	cessor(3
		manufacturer reporting for customer who is a processor
	, .	processor reporting for customer who is a processor

CBI	'Doe in	s the substance you are reporting on have an " $x/p$ " designation associated with it the above-listed Federal Register Notice?
[_]	Yes	$[\overline{x}]$ Go to question 1.04
	No 	[_] Go to question 1.05
1.04 CBI	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.
[_]		Yes
	b.	Check the appropriate box below:
		You have chosen to notify your customers of their reporting obligations  Provide the trade name(s)
		[] You have chosen to report for your customers
-	· <u>-</u>	You have submitted the trade name(s) to EPA one day after the effective date of the rule in the Federal Register Notice under which you are reporting.
1.05 CBI	•	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.
[_]	Trac	de name Wingfil Part A
	Is	the trade name product a mixture? Circle the appropriate response.
	Yes	
	No .	2
1.06 CBI	. 0	ification The person who is responsible for the completion of this form must the certification statement below:
	"I lente	Pereby certify that, to the best of my knowledge and belief, all information ered on this form is complete and accurate."    ODER C   LEVER
	(	ENTEL MANAGER (215) 494 LIGO TELEPHONE NO.
	lark	(X) this box if you attach a continuation sheet.

1.07 <u>CBI</u> [_]	with the required information within the past 3 years, and the for the time period specified are required to complete sections.	f you have provided EPA or anoth on a CAIR Reporting Form for the his information is current, accuing the rule, then sign the certion 1 of this CAIR form and provide a copy of ction 1 submission.	e listed substance urate, and complete ification below. You ide any information
	information which I have not in	best of my knowledge and belied ncluded in this CAIR Reporting I and is current, accurate, and o	Form has been submitted
	NA		
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
1.08 <u>CBI</u> []	certify that the following sta those confidentiality claims w "My company has taken measures and it will continue to take t been, reasonably ascertainable using legitimate means (other a judicial or quasi-judicial p information is not publicly av	ve asserted any CBI claims in the tements truthfully and accurate hich you have asserted.  to protect the confidentiality hese measures; the information by other persons (other than gothan discovery based on a showing roceeding) without my company's ailable elsewhere; and disclosu o my company's competitive posi	of the information, is not, and has not overnment bodies) by ng of special need in consent; the
	NAME	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	
[_]	Mark (X) this box if you attach	a continuation sheet.	

PART	'B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	
[_]	Address [7] 6 5 1 1 K E I Y I S I F I O I N E I T I D I N D I T I T I T I T I T I T I T I T I T I
	( <u>C</u> ) <u> </u>
	Dun & Bradstreet Number
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $(7   5   3   4)$
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
CBI	Name $[T]h]e][G]o]o]d]y]e]a]r][T]i]r]e]&[R]u]b]b]e]r][C]$
[_]	Address $[1]1]4]4] [E]a]s]t] [M]a]r]k[e]t] [Street]$
	[A]k[r]o[n]
	Dun & Bradstreet Number
	Employer ID Number
	·

1-11	Parent Company Identification						
<u>CBI</u>	Name $[T]h[e][G[o]o]d[y]e[a]$ Address $[1]1[4]4[E[a]s[t]$		e   t			_	
	[A]k]nlalnl_l_l_l_	]_]_]_]_]_] Ci ty	11_	_11_	1_1_	<u>_</u>	1_1_1
		$\left[\frac{\overline{O}}{\overline{S}}\right]\frac{\overline{H}}{\overline{S}}$	[4]4	<u> 1311</u>	1 <u>6</u> ]!	<u>010</u>	<u>  0   1  </u>
	Dun & Bradstreet Number		( <u>0</u> ) <u>0</u> ).	-[ <u>4</u> ] <u>4</u>	<u>]</u>	<u>7191</u>	2 1 4 1
1.12	Technical Contact				·		•
CBI	Name [A][]N]C]O]][]L]]]A	1 <u>m</u> 1 <u>B</u> 1 <u>7</u> 1_1_		]_]_]		11	
[_]	Title [T]EICIHI_ISIEIRIVIIIC	IEI_IRIEI		]]_]	11	11	11
	Address [D]N]E]_]C]E]N]T]E]R	•	NITIE	1 <u>_1</u> _1	<u> [[]</u>	VIEI	
	[L]A]_]P]A]LIMIAI_]	]]]]] City	_1_1_	]_]_]	11	11	11
		[ <u>C]A</u> ] State	[ <u>7</u> ] <u>0</u>	16121	<u>3</u> ]{	<u> </u>	<u>914</u> 1
	Telephone Number	[8	<u> 10101</u>	-[ <u>4]3</u>	1 <u>2</u> 1-[	<u>3</u> 1 <u>3</u> 1	<u> フ</u> 1 <u>フ</u> 1
1.13	This reporting year is from	[	<u>O</u> ] <u>1</u> ]	( <u>8</u> ] <u>8</u> ]	to { <u>1</u>	] <u>2</u> ]	{ <u>8</u>   <u>8</u>
	•						

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
	NA
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[ ] ] ] ] ] ] ] ] ] ] ] [ ] [ ] [ ] [ ]
	[_]_] [_]_] [_]_][_]_]_]_] State
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	NA Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	City
	[_]_] [_]_]_[_]_][_]_]_]_ State
	Employer ID Number         [ ] ] ] ] ] ] ] ]
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
<b>I</b> _]	Mark (X) this box if you attach a continuation sheet.

CBI	was manufactured, imported, or processed at your facility during the Classification	
[_]	<u>VIASSITICACION</u>	Quantity (kg/yr)
	Manufactured	0.0
	Imported	0,0
	Processed (include quantity repackaged)	618.2
	Of that quantity manufactured or imported, report that quantity:	
	In storage at the beginning of the reporting year	N&
	For on-site use or processing	NX
	For direct commercial distribution (including export)	NA
	In storage at the end of the reporting year	NA.
	Of that quantity processed, report that quantity:	
	In storage at the beginning of the reporting year	<u>O</u>
	Processed as a reactant (chemical producer)	<u>0.0</u>
	Processed as a formulation component (mixture producer)	<u>0</u> .0
	Processed as an article component (article producer)	618,2
	Repackaged (including export)	6.0
	In storage at the end of the reporting year	7.36

CBI	or a component of a mixture chemical. (If the mixture each component chemical for	ubstance on which you are rece, provide the following infocuments of the composition is variable, rependent of the composition	quired to report ormation for each port an average p	is a mixtur component ercentage o
[_]	Component Name	Supplier Name	Compositio (specify	age % n by Weight precision, 5% ± 0.5%)
	TDI Prepolymer	ARNCO	40 ± 5.0	
	Petroleum Hydrocarbon	ARNCO	55 ± 5.0	
	Toluene Diisocyanate	ARNCO	4.0 + 0.	 5
			Total	100%
			4.5	

[\_\_] Mark (X) this box if you attach a continuation sheet.

1	or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending $(1)^2 \times (3)^2 \times $
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending $\left[\frac{1}{2}\right]$ $\left[\frac{8}{6}\right]$ -Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
	NA
	Continuous process 1
	Semicontinuous process
	Batch process
[_]	Mark (X) this box if you attach a continuation sheet.

'2.06 CBI	Specify the manner in appropriate process ty	which you processed t pes.	he listed substance.	Circle all
[_]	Continuous process			
	Continuous process			
	Semicontinuous process			
	Batch process	• • • • • • • • • • • • • • • • • • • •	•••••••	3
2.07 CBI	State your facility's substance. (If you arquestion.)	name-plate capacity f e a batch manufacture	or manufacturing or p r or batch processor,	rocessing the listed do not answer this
	questron.)			
[_]	Manufacturing capacity	NA		
	Processing capacity .	• • • • • • • • • • • • • • • • • • • •		kg/,yr
2.08 CBI	If you intend to increamanufactured, imported year, estimate the increavolume.	· UL DIOCESSED at any	timo oftom move	
[_]		Manufacturing Quantity (kg)	ImportingQuantity (kg)	Processing Quantity (kg)
	Amount of increase			88.73
	Amount of decrease			

· 2.09	substance durin	argest volume manufacturing or processing proce ee, specify the number of days you manufactured of the reporting year. Also specify the average is type was operated. (If only one or two opera	or processed	the listed
CBI				
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
	,	Manufactured		
		Processed	60	4
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		•
		Manufactured		
		Processed	*****	
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 CBI	State the maxim substance that chemical.  Maximum daily i		y of the is the form of	kg kg
[_]	Mark (X) this b	ox if you attach a continuation sheet.		

etc.). _]	NA				Source of By
CAS No.	<u>Chemi</u>	cal Name	Byproduct, Coproduct or Impurity <sup>1</sup>	Concentration (%) (specify ± % precision)	products, Co- products, or Impurities
	·				
	<del></del>			<del></del>	•
		es to designate	byproduct, copro	oduct, or impurit	y:
Use the  B = Bypr C = Copr I = Impu	oduct oduct	es to designate	byproduct, copro	oduct, or impurit	y:
B = Bypr C = Copr	oduct oduct	es to designate	byproduct, copro	duct, or impurit	y:
B = Bypr C = Copr	oduct oduct	es to designate	byproduct, copro	duct, or impurit	y:
B = Bypr C = Copr	oduct oduct	es to designate	byproduct, copro	duct, or impurit	y:
B = Bypr C = Copr	oduct oduct	es to designate	byproduct, copro	duct, or impurit	y:

a.	b. % of Quantity		с.	d .
Product Types <sup>1</sup>	Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users
X	100		100	I, CM
		_		
 		_		
<sup>1</sup> Use the following codes A = Solvent	to designate prod			e/Rubber and additiv
<pre>B = Synthetic reactant C = Catalyst/Initiator/     Sensitizer</pre>		M = N =	: Plasticizer : Dye/Pigment/Colo	rant/Ink and additiv
<pre>D = Inhibitor/Stabilize     Antioxidant E = Analytical reagent</pre>	r/Scavenger/	P =	and additives Electrodeposition	n/Plating chemicals
F = Chelator/Coagulant/ G = Cleanser/Detergent/	Sequestrant	R =	<ul><li>Fuel and fuel ad Explosive chemic</li></ul>	als and additives
<pre>H = Lubricant/Friction</pre>	modifier/Antivear	T =	<ul><li>Fragrance/Flavor</li><li>Pollution contro</li></ul>	l chemicals
agent		U =	<ul><li>Functional fluid</li><li>Metal alloy and</li></ul>	s and additives
agent I = Surfactant/Emulsifi	er	V =		additivos
<pre>I = Surfactant/Emulsifi J = Flame retardant</pre>		U	Phoological modi	f:
<pre>I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe</pre>	sive and additives	V =	Rheological modi Other (specify)A	f:
<pre>I = Surfactant/Emulsifi J = Flame retardant</pre>	sive and additives	V = X = type	Rheological modi Other (specify)A of end-users:	f:

2.13 <u>CBI</u> [_]	Expected Product Types import, or process using corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an example of the examp	For each use, spece each use as a percetthe reporting year. as a percentage of each product type.	ince cify entag Als	at any time after the quantity you ge of the total vo so list the quanti	your current expect to manufacture, lume of listed ty of listed substance
	a.	b.		с.	d.
	Product Types <sup>1</sup>	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users <sup>2</sup>
	<u> </u>	100		100	I, CM
					•
			<del></del>		
~ · · · · · · · · · · · · · · · · · · ·	<sup>1</sup> Use the following code	s to designate prod	uct	types:	
	<pre>A = Solvent B = Synthetic reactant C = Catalyst/Initiator</pre>	/Accelerator/	L = M = N =	Moldable/Castable	e/Rubber and additives cant/Ink and additives cographic chemical
	Antioxidant E = Analytical reagent	_	P =	Electrodeposition	n/Plating chemicals
	F = Chelator/Coagulant	/Sequestrant	Q = R =	Fuel and fuel add Explosive chemica	litives als and additives
	G = Cleanser/Detergent H = Lubricant/Friction	/Degreaser _modifier/Antivear	ς	Fragrance/Flauer	abanda 1 -
	agent		Ū =	Functional fluids	and additives
	<pre>I = Surfactant/Emulsif J = Flame retardant</pre>	ıer	V =	Metal alloy and a	additives
	K = Coating/Binder/Adh	esive and additives	W =	Rheological modif	her rticle-Flat proof tire
	<sup>2</sup> Use the following code			<del>-</del>	•
	I = Industrial	CS = Cons	umer		
	CM = Commercial			pecify)	
(_)	Mark (X) this box if you	u attach a continua	tion	sheet.	

	b.	c. Average % Composition of	d.
Product Type <sup>1</sup>	Final Product's Physical Form <sup>2</sup>	Listed Substance in Final Product	Type of End-Users <sup>3</sup>
x	Н	< 0.01	I, CM
•			
<sup>1</sup> Use the following	codes to designate pro	eduat tunas	
<pre>agent I = Surfactant/Emu J = Flame retardan K = Coating/Binder</pre>	ator/Accelerator/ ilizer/Scavenger/ gent lant/Sequestrant gent/Degreaser tion modifier/Antiwear lsifier t /Adhesive and additive codes to designate the F2 = Cry F3 = Gra on F4 = Oth G = Gel	<pre>U = Functional fluid V = Metal alloy and W = Rheological modi es X = Other (specify) e final product's physi estalline solid unules eer solid</pre>	rant/Ink and addit rographic chemical n/Plating chemical ditives als and additives chemicals l chemicals s and additives additives fier Article-Flat proo
	codes to designate the	type of end-users:	
I = Industrial	CS = Con		

'CBI	1150	le all applicable modes of transportation used to deliver ed substance to off-site customers.		
[_]	Truc	c		(1)
	Rail	ear		
	Barg	e, Vessel		3
	Pipe	line	• • • • • • • • • • • • • • • • • • • •	4
	Plane	e	• • • • • • • • • • • • • • • • • • • •	5
	Othe	c (specify)		6
	× 1:	· · · · · · · · · · · · · · · · · · ·		•
2.16 <u>CBI</u> []	of er	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for und use listed (i-iv).	e used by your cus use under each cat	tomers egory
		gory of End Use		
	i.	Industrial Products		
		Chemical or mixture		_ kg/yr
	•	Article	556,4	_ kg/yr
	ii.	Commercial Products		
		Chemical or mixture		_ kg/yr
		Article	61.8	_ kg/yr
	iii.	Consumer Products		
		Chemical or mixture		kg/yr
		Article		 kg/yr
	iv.	<u>Other</u>		_
		Distribution (excluding export)		kg/yr
		Export		
		Quantity of substance consumed as reactant		
		Unknown customer uses		
				6, 1,
[-]	Manul	(X) this box if you attach a continuation sheet.		

# SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

	A GENERAL DATA		
3.01 <u>CBI</u> [_]	Specify the quantity purchased and the average price for each major source of supply listed. Product trad. The average price is the market value of the product substance.	paid for the list es are treated as that vas traded f	ed substance purchases. or the listed
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.	618.2	5.00
	Circle all applicable modes of transportation used to your facility.  Truck  Railcar  Barge, Vessel  Pipeline  Other (specify)		
]	Mark (X) this box if you attach a continuation sheet.		

3.03 <u>CBI</u>	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders
		Tank rail cars 4
		Hopper cars
		Tank trucks 6
		Hopper trucks 7
		Pipeline8
		Pipeline9 Other (specify)
	b.	Other (specify)
		Tank cylinders mmHg
		Tank rail cars
		Tank rail cars mmHg Tank trucks mmHg
		Tank rail cars mmHg  Tank trucks mmHg
		Tank rail cars mmHg  Tank trucks mmHg
		Tank rail cars mmHg  Tank trucks mmHg
		Tank rail cars mmHg  Tank trucks mmHg
		Tank rail cars
		Tank rail carsmmHg  Tank trucksmmHg
		Tank rail carsmmHg  Tank trucksmmHg
		Tank rail carsmmHg  Tank trucksmmHg
		Tank trucksmmHgmmHg

[] Mark (X) this box if you attach a continuation sheet.

Wingfil Part A	ARNCO	4.0 ± 0.5	15450
:			
	-		
			-
·			
		•	

3.05 CBI	State the quantity of the reporting year in the for the percent composition,	listed substance used as a r m of a class I chemical, clas by weight, of the listed subs	aw material during the ss II chemical, or polymer, and tance.
		Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision
	Class I chemical	615.7	4.0 + 0.5
	Class II chemical		
	Polymer		

SECTION	4	PHYSICAL/CHE	MTCAL	PROPERTIES

General Ir	str	uct	ions	•
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If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning

PART	A PHYSICAL/CHEMICAL DA	TA SUMMARY				
4.01 <u>CBI</u>	substance as it is manufactured, imported, or processed. Measure the purity of substance in the final product form for manufacturing activities, at the time yo import the substance, or at the point you begin to process the substance.					
		Manufacture	Import	Process		
	Technical grade #1	% purity	% purity NA-r	uixture % purity		
	Technical grade #2	% purity	% purity	% purity		
	M	% purity		% purity		
.02	l Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develo		manufactured, importe ety Data Sheet (MSDS) the listed substance	d or processed.  for the listed  If you possess		
.02	l Major = Greatest quant Submit your most recent substance, and for ever an MSDS that you develor version. Indicate when appropriate response.	tity of listed substance tly updated Material Safe ty formulation containing	manufactured, importe ety Data Sheet (MSDS) g the listed substance ed by a different sour as been submitted by c	g purity d or processed.  for the listed . If you possessee, submit your ircling the		
4.02	Major = Greatest quant  Submit your most recent substance, and for ever an MSDS that you develor version. Indicate wher appropriate response.  Yes	tity of listed substance tly updated Material Safe ry formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, importe ety Data Sheet (MSDS) g the listed substance ed by a different sour as been submitted by c	g purity  d or processed.  for the listed  If you possess  ce, submit your  ircling the		
4.02	l Major = Greatest quant  Submit your most recent substance, and for ever an MSDS that you develor version. Indicate wher appropriate response.  Yes	tity of listed substance tly updated Material Safe ry formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, importe ety Data Sheet (MSDS) g the listed substance ed by a different sour as been submitted by c	for the listed . If you possess ce, submit your ircling the		
4.02	l Major = Greatest quant  Submit your most recent substance, and for ever an MSDS that you develor version. Indicate where appropriate response.  Yes	tity of listed substance tly updated Material Safe try formulation containing oped and an MSDS develope ther at least one MSDS ha	manufactured, importe  ety Data Sheet (MSDS) g the listed substance ed by a different sour as been submitted by c	for the listed . If you possessee, submit your ircling the		



## HATERIAL SAFETY DATA SHEET

REVISION DATE June 4 , 1986

## I. GENERAL INFORMATION

PRODUCT NAME : WING-FIL COMPONENT "A"

CHEHICAL NAME : TDI Prepolymer plus Petroleum Hydrocarbon

CHEHICAL FAHILY : Isocyanate Prepolymer and Petroleum Hydrocarbon

: Proprietary DOT HAZARD CLASS : UN2078 (TDI)

HANUFACTURER ' : ARNCO, 5141 Firestone Place, South Gate, CA 90280-3570

Phone No: (213)567-1378

CHEHTREC Phone No: (800)424-9300 District of Columbia: (202)483-7616

#### II. INGREDIENTS

Components	TLV	Flash Point OF	Boiling Point OF	Vapor Press. mm Hg	Vapor Dens. (Air=1)	Flammable Limit LEL UFI
TDI Prepolymer	0.02ppm 0.2mg/m3	Not Estab.	Not Estab.	0.02 @77°F.	6.0	Not Estab.
Petroleum Hydrocarbon	0.2mg/m <sup>3</sup> TWA-ACGIH	>300	>550	<1.0 @68°F.	<0.1	No Data Available

### III. PHYSICAL DATA

BOILING POINT (°F) : 464 VAPOR PRESSURE (mm Hg)

: SEE SECTION II VAPOR DENSITY (Air=1) : SEE SECTION II

SOLUBILITY IN WATER, \$ : Insoluble. Reacts with water to liberate

CO<sub>2</sub> gas.

APPEARANCE & ODOR : Dark brown liquid. Sharp pungent odor. SPECIFIC GRAVITY

 $(H_20=1)$ : 1.01 \* VOLATILE BY VOLUME

: Negligible EVAPORATION RATE (Ether=1): Not Established

### IV. FIRE & EXPLOSION HAZARD DATA

FLASH POINT (OF)

: 320

FLAHHABLE LIHITS

.: Not Established

EXTINGUISHING HEDIA

: Dry chemical, chemical foam, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full emergency equipment with self-contained pressure-demand breathing apparatus. Use water to cool fire-exposed containers. Eliminate all sources of ignition.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, toxic gases are genererated. Closed containers may explode from extreme heat or from water contamination. DO NOT reseal water-contaminated containers, as pressure buildup up may cause violent rupture of the container.

#### V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 0.02 ppm; 0.2 mg/m<sup>3</sup>

### SYMPTOMS OF EXPOSURE:

INHALATION: Hay cause dizziness and nausea. Irritation of the upper and lower respiratory tract. Some individuals may develop isocyante hypersensitization and must avoid further exposure to even low isocyanate levels. Inhalation of mists may present a cancer hazard sinusitis, brochitis, asthma, and impaired ventilatory capacity can occur in some individuals.

INGESTION: Irritation and corrosive action in the mouth, stomach and digestive tract. Possibly liver toxicity. Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

EYES: Liquid, vapors, or mist can cause sever irritation, redness, tearing, blurred vision and possibly irreversible damage to the eye.

SKIN: Irritation and allergic sensitivity may occur for some individuals, producing reddening, swelling or blistering, and skin sensitization, possibly resulting in dermatitis. This product contains petroleum oils similar to those catogarized by the International Agency for Research on Cancer (IARC) as causing skin cancer in mice after prolonged and repeated contact. Any potential hazard can be minimized by using recommended protective equipment to avoid skin contact and by washing thoroughly after handling.

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## V. HEALTH HAZARD DATA (continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing unspecific bron-chial hypersensitivity and, potentially, any allergies.

PRIMARY ROUTES OF ENTRY: Inhalation and skin contact.

## EHERGENCY FIRST AID:

INHALATION: Remove victim to fresh air. If breathing is difficult. administer oxygen. If breathing has stopped, apply artificial respiration, and get medical attention immediately. NOTE TO PHYSICIAN: Treat symptomatically: bronchodilators; oxygen.

INGESTION: DO NOT INDUCE VOMITING. Aspiration can be fatal. Give a glass of milk or water, keep patient quiet and warm, and get prompt medical atten-

EYES: Flush immediately with water for at least 15 minutes, occasionally lifting the eyelid, and get prompt medical attention.

SKIN: Remove contaminated clothing and launder before reuse. Wash affected skin with soap and water. Consult a physician if swelling or reddening

## VI. REACTIVITY DATA

STABILITY: Stable under normal, recommended storage conditions.

CONDITIONS TO AVOID: Open flame and storage temperatures above 120°F

INCOMPATIBILITY: Materials to avoid are water. alcohols, ammonia, amines, and alkalis. Contaminated containers should be left vented and be moved to a safe area for neutralization and proper disposal.

HAZARDOUS POLYMERIZATION: Hay occur.

CONDITIONS TO AVOID: Exposure to high temperature, or resealing of containers contaminated with materials listed under INCOMPATIBILITY (materials to avoid).

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, nitrogen oxides, sulfur oxides, unidentified organic compounds, and traces of hydrogen cyanide (HCN).

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# VII. ENVIRONMENTAL PROTECTION PROCEDURES

SPILL RESPONSE: Evacuate and ventilate the area. Eliminate all sources of ignition. Respiratory protection must be worn during cleanup. Cover the spill with sawdust, vermiculite, or other absorbent material. Scoop and place in open container and remove to well ventilated area to be treated with a decontamination solution made up of 20% Tergitol TMN-10 (Union Carbide) and 80% water; or 5% concentrated ammonia, 2% detergent, and 93%water. Leave the container open for 24-48 hours. Wash down the spill area with decontamination solution. For major spills call CHEMTREC: (800)

WASTE DISPOSAL HETHOD Decontaminated waste must be disposed of in accordance with Federal, State, and local environmental control regulations. It is your duty to comply with the Clean Air Act, Clean Water Act, and Resources Conservation and Recovery Act.

# VIII. SPECIAL PROTECTION INFORMATION

EYE PROTECTION: Chemical workers goggles or full-face shield. Contact lenses should not be worn in or near work area.

RESPIRATORY PROTECTION: HSHA/NIOSH approved positive-pressure air-supplied respirator with full-face shield. Organic vapor filters are not effective against TDI vapor. The vapor pressure of TDI is such that at normal temperatures, vapor concentration in the air will exceed the TLV of 0.02 ppm.

SKIN PROTECTION: Impervious, chemical resistant (natural rubber) gloves, arm covers, aprons or coveralls, boots and caps.

VENTILATION RECOMMENDED: General mechanical ventilation and local exhaust. to maintain vapor concentration below the TLV.

OTHER PROTECTION: Safety showers and eye wash stations must be easily accessible. Provide a dry nitrogen blanket in bulk storage tanks.

## IX. SPECIAL PRECAUTIONS

HYGIENIC PRACTICES IN HANDLING & STORAGE: Store below 100°F, preferably below 90°F, in tightly-closed containers to prevent atmospheric moisture contamination. DO NOT reseal if contamination is suspected. DO NOT store

Wear protective equipment to prevent eye and skin contact. DO NOT breath vapors. Wash hands before eating or smoking.

Since emptied containers retain product residues (vapor or liquid), all hazard precautions given in this HSDS must be observed. For proper container disposal, fill with water and allow to stand unsealed for at least 48 hours then dospose of in accordance with Federal, State and local environmental control regulations.

THE INFORMATION IN THIS HSDS IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IT IS ACCURATE TO THE BEST KNOWLEDGE OF ARNCO. DATA ON THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. ARNCO ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.

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•	
4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at
<u>CBI</u>	the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.
	Physical State
	Timuified.

	Physical State						
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas		
Manufacture	1	2	3	4	5		
Import	1	2	3	4	5		
Process	1	2	(3)	4	5		
Store	1	2	3	4	5		
Dispose	1	2	3	4	5		
Transport	1	2	3	4 .	5		

<sup>[</sup>\_] Mark (X) this box if you attach a continuation sheet.

4.05 <u>CBI</u> [_]	percenta particle importing listed so	e Size If the listed substance exists in particulate form during any of the ng activities, indicate for each applicable physical state the size and the age distribution of the listed substance by activity. Do not include es ≥10 microns in diameter. Measure the physical state and particle sizes for and processing activities at the time you import or begin to process the substance. Measure the physical state and particle sizes for manufacturing, disposal and transport activities using the final state of the product.						
	Physical State		Manufacture	Import	Process	Store	Dispose	Transport
	Dust	<li><l li="" micron<=""></l></li>			NA			-
		1 to <5 microns			NA			
		5 to <10 microns		-	NA			
	Powder	<1 micron		<del></del>	NA			. •
		1 to <5 microns			NA			
		5 to <10 microns			NA_			
	Fiber	<1 micron			NA			
	•	1 to <5 microns			NA	-		
		5 to <10 microns			NA			
	Aerosol	<1 micron	•		NA_			
		1 to <5 microns			NA			
		5 to <10 microns			NA			

SECTION	5	ENVIRONMENTAL	FATE

l	Indicate the rate constants for the following transformation processes.									
	a.	Photolysis:								
		Absorption spectrum coefficient (peak) (1/M cm) at	nm							
		Reaction quantum vield &	nm							
		Direct photolysis rate constant, k <sub>p</sub> , atl/hrlat	itu							
	b.	Oxidation constants at 25°C:								
		For <sup>1</sup> 0 <sub>2</sub> (singlet oxygen), k <sub>ox</sub>	1/M							
		For RO <sub>2</sub> (peroxy radical), k <sub>ox</sub>	1/M							
•	c.	Five-day biochemical oxygen demand, BOD <sub>5</sub>								
•	d.	Biotransformation rate constant:								
		For bacterial transformation in water, $k_b \dots$	1/h							
		Specify culture								
•	e.	Hydrolysis rate constants:								
		For base-promoted process, k <sub>B</sub>	1/M							
		For poid proposed pursuant	1/8							
		For poutral process k	1/h							
j	f.	Chemical reduction rate (specify conditions)								
8	g.	Other (such as spontaneous degradation)								

[ ] Mark (X) this box if you attach a continuation sheet.

PART	В	PARTITION COEFFICI	ENTS					
5.02	a.	Specify the half	-life of the l	isted sub	stance in the	following	g media	1.
		Media				e (specify	y units	5)
		Groundwater						
		Atmosphere					7 10	
		Surface water						
		Soil						
	b.	Identify the list life greater than	ted substance' n 24 hours.				that h	nave a half-
		CAS No.		<u>Name</u>	Half-l: (specify			Media
							in	
			<u> </u>				in	
			<del>-</del>				in	
						<del></del>	in	
5.03		cify the octanol-w		n coeffici				
		or carearactor	or determina	(1011	••••••	· · · · · · · · · · · · · · · · · · ·		
5.04		cify the soil-wate						
5.05	Spec	cify the organic c	arbon-water pa	artition	NA-Mixture		***	at 25°C
5.06	Spec	cify the Henry's L	av Constant, I	d	NA-Mixture			atm-m³/mole
[_]	Marl	k (X) this box if	you attach a d	continuati	on sheet.	*****		

Bioconcentration Factor	NA-Mixture Species	Test <sup>1</sup>
	Species	rest
<sup>1</sup> Use the following codes to des	signate the type of test:	
F = Flowthrough		
S = Static		·
	•	

6.04 CBI	·For each market listed below, state the listed substance sold or transfer	he quantity sold and the tota red in bulk during the repor	al sales valde of ting year.
[_]	Market	Quan <b>k</b> ity Sold or T	otal Sales alue (\$/yr)
	Retail sales  Distribution Wholesalers		<del>                                     </del>
	Distribution - Retailers Intra-company transfer		
	Repackagers		
	Article producers	\ <u> </u>	
	Other chemical manufacturers or processors		
	Exporters Other (specify)		
	- (spacify)		<u> </u>
6.05 <u>CBI</u>	Substitutes — List all known commerce for the listed substance and state the feasible substitute is one which is earn your current operation, and which performance in its end uses.	e cost of each substitute. conomically and technologica	A commercially
( )	Substitute		Cost (\$/kg)
	No substitutes currently known		
		_	
-			
[_]	Mark (X) this box if you attach a con	tinuation sheet.	

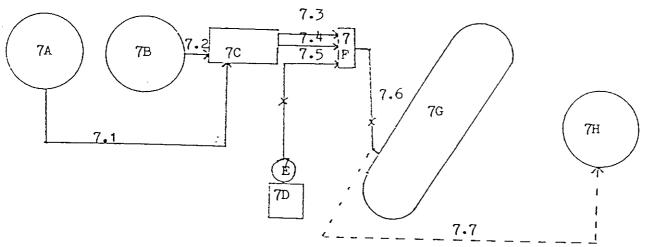
#### General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the

# PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

[ ] Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

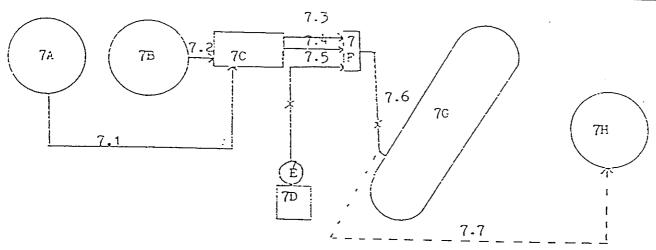
7H = Clean-out Solution Drum

<sup>[ ]</sup> Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions type, provide a process block flow diagram each process type as a separate block.

CBI

| Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

 $<sup>\{\</sup>overline{-}\}$  -Hark (X) this box if you attack a continuation sheet.

Process typ	e Batch-	- Polyurethane Polyme	rization	
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vess Compos
7A	Drum	Ambient	Atmospheric	Steel
7B	Drum	Ambient	Atmospheric	Steel
7C	Metering Pump	Ambient	Atmospheric	Stainl
7D	5 Gallon Can	Ambient	Atmospheric	Steel
7E	Pump	Ambient	Atmospheric	Steel
7F	Mixing Head	Ambient	Atmospheric	Stainl
7G	Tire	Ambient	Atmospheric	Vul. R
7H	Drum	Ambient	Atmospheric	Steel
				P-157-

7.05	brocess proce	C TIOM GI	stream identified in your agram is provided for more it separately for each pr	than one proceed type	iagram(s). If a e, photocopy this			
CBI								
[_]	Process type Batch - Polyurethane Polymerization							
	Process Stream ID Code		Process Stream Description	Physical State <sup>1</sup>	Stream Flow (kg/yr)			
	7.1	TDI	Prepolymer	OL	15456			
	7.3	TDI	Prepolymer	OL	15456			
	7.6	Poly	merizing Polyurethane	OL	30912.			
	-							
	GC = Gas (co GU = Gas (un SO = Solid SY = Sludge AL = Aqueous OL = Organic	ondensible acondensible or slurry s liquid c liquid	des to designate the physical at ambient temperature able at ambient temperature of the standard of the standa	and pressure) and pressure)				
[_]	Mark (X) this	box if	you attach a continuation	sheet.				

<u>CBI</u>	this quest:	ze each process stream ide ss block flow diagram is p ion and complete it separa is for further explanation	provided for mor	re than one pro-	nace tuna mhata
()	Process typ	De Batch - Po	olyurethane Pol	ymerization	
	a.	b.	c.	d.	е.
	Process Stream ID Code	Known Compounds <sup>1</sup>	Concen- trations <sup>2,3</sup> (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	7.1	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 - 5.0 (E) (W)	NA	NA_
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W)	NA	· NA
	7.3	TDI Prepolymer	40 ± 5.0 (E) (W)	NA	NA
		Petroleum Hydrocarbon	55 ± 5.0	NA	NA
		Toluene Diisocyanate	4.0 ± 0.5 (E) (W) -	NA .	NA .
	7.6	Polyurethane	(E) -(₩)	NA	NA
		Toluene Diisocyanate	(E) (W)	NA	NA
		Amine	<u>(£) (w)</u>	NA	NA
7.06	continued b	elov			
					*

7.06 (continued	Ì	,	)
-----------------	---	---	---

## NA

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive Package Number	Components of Additive Package	Concentration(% or ppm)
1		
		-
_		
2		
3		
		**
	•	A-15-
		en e
5		
211		
	es to designate how the concentrat	ion vas determined:
A = Analytical result E = Engineering judger	ment/calculation	
·	es to designate how the concentrat	ion was measured:
V = Volume V = Weight		
0		

8.01 <u>CBI</u>	In accordance with the which describes the tr	e instruct ceatment p	ions, prov rocess use	vide a resi ed for resi	dual trea duals ide	tment block ntified in (	flow diagram question 7.01
[_]	Process type		Batch - 1	Polyurethan	e Polymer	ization	
		NA					
	•						•
	<i>t</i>						
	÷	,					

BI	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)							
<u></u> ]	Process type Batch - Polyurethane Polymerization							
	a.	b.	C.	d.	е.	f.	g.	
	Stream ID Code	Type of Hazardous Vaste	Physical State of Residual <sup>2</sup>	Known Compounds <sup>3</sup>	Concentra- tions (% or ppm) 4.5.6	Other Expected Compounds	Estimated Concen- trations (% or ppm)	
						Market		
							<u></u>	
						·		
					Polyagonaria			
· 05	continu	 ed belov						

<sup>1</sup>Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

<sup>2</sup>Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

S0 = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

 $<sup>[ \</sup>overline{ } ]$  Mark (X) this box if you attach a continuation sheet.

R	.05	(continue	d١
v	• • •	(CONTINUE	.u ,

NA

<sup>3</sup>For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
	1		
	2		•
	3		
	4		
	· ·		
			-
	5	•	
	4lice the following and		
	A = Analytical result E = Engineering judgeme	to designate how the concentration	
 8. <b>0</b> 5	continued below	- <b></b>	·
[_1	Mark (X) this box if you	attach a continuation sheet.	
		56	

R	.05	(continued)
v	• • •	( CONTINUED)

NA

 $^{5}\mbox{Use}$  the following codes to designate how the concentration was measured:

V = Volume

W = Weight

<sup>6</sup>Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method	Detection Limit ( <u>+</u> ug/l)
1		
2		•
3		
4		
5		
6	,	

 $[\ ]$  Mark (X) this box if you attach a continuation sheet.

8.06	diagram process	(s). If a retype, photoe	esidual trea copy this qu	tment block estion and o	l in your residual of flow diagram is pro complete it separate ner explanation and	ovided for mo	re than one
CBI							
[_]	Process	type	Bat	tch - Polyur	ethane Polymerizati	on	
	a.	b.	c. NA	d.	е.	f. Costs for	g.
	Stream ID Code	Waste Description Code <sup>1</sup>	Management Method Code <sup>2</sup>	Residual Quantities (kg/yr)	Management of Residual (%) On-Site Off-Site	Off-Site Management (per kg)	Changes in Management Methods
						<u>.</u>	
				***		-	
			-		PM to the first of the second		
				The real section of the section of t			
					•	-	
	•	****					
				ma.		***************************************	
				<del></del>			
	 ¹Use th	 e codes prov	ided in Exhi	bit 8-1 to	designate the waste	description	<u></u>
					designate the manag		
[_]	Mark (X	) this box i	f you attach	n a continua	tion sheet.		
				6.0			

8.22 CBI	(by capacity)	onbustion chamber design	sed on-site	to hurb the re	sciduale ida	rgest entified in
	your process o	Combustion Chamber Temperature (°C)	Loca Temp	ow diagram(s). tion of erature nitor	Reside In Com	nce Time bustion (seconds)
	Incinerator	Primary Secondary	Primary	Secondary	Primary	Secondary
	2			\ <u> </u>	<del></del>	
	Indicate by circl	if Office of Solid Wass	te survey ha:	s been submitt	ed in lied	of response
	Yes		<u></u>		•••••	
					••••••	\ 2
	<del>\</del>					\
[ <u>]</u> ]	/ c doca on-si.		s identified  ollution l Device <sup>1</sup>	in your proce	ss block or Types Emission Avail	residual of s Data
	1				AVAII	aure
	2					
	3	<del></del>	<del></del>	<del> </del>		•
	by Circi	if Office of Solid Wast ng the appropriate resp	oonse.			•
	Yes			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1
		ring codes to designate				
	S = Scrubber (	include type of scrubbe				
1_1	Mark (X) this b	ox if you attach a cont	inuation she	eet.		

PART A	EMPLOYMENT	AND	POTENTIAL.	EXPOSIBE	PROFTLE

Data Element	ata are Ma Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number Years Red Are Main
Date of hire	$\overline{\lambda}$	<u> </u>	1 1656	INDETIN
Age at hire	4			
Work history of individual before employment at your facility	X	¥		
Sex	<u> </u>	· j		
Race	•	X.		
Job titles	<u> </u>	<u> </u>		p of co
Start date for each job title	1	y		To the state of th
End date for each job title	<u> </u>	<u> </u>		
Work area industrial hygiene monitoring data		7		The state of the s
Personal employee monitoring data		7		
Employee medical history		<del></del>	V and	NA MINISTRAL
Employee smoking history	<u>X</u>			
Accident history	<u> </u>			A. L. C. Canpullan
Retirement date	<del>/</del>	<u> </u>		
Termination date	$\frac{\lambda}{\lambda}$	<del></del>		
Vital status of retirees	<u> </u>	*		
Cause of death data	X	<u> </u>		

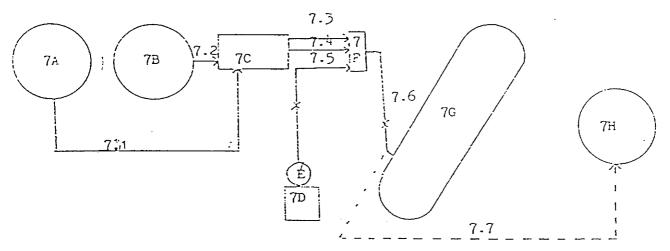
9.02	In accordance with the in which you engage.	instructions, complete	the following ta	ble for e	ach activity
CBI					
[_]	a.	ъ.	с.	d.	е.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour
	Manufacture of the listed substance	Enclosed			
	listed substance	Controlled Release			
		0pen	•		
	On-site use as	Enclosed	615.2	3.	240
	reactant	Controlled Release			•
		0pen			
	On-site use as nonreactant	Enclosed			
		Controlled Release			
		0pen			
	On-site preparation	Enclosed			
	of products	Controlled Release			•
	·	0pen			
					•

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+
A de la constantina della cons
5 D - Lat - La

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

Process type ..... Batch - Polyurethane Polymerization



7A = TDI Prepolymer

7B = Amine Solution

7C = Metering Pump

7D = Isopropyl Alcohol Cleaning Solution

7E = Cleaning Solution Pump

7F = Components Mixing Head

7G = Tire Being Filled Through Valve Stem

7H = Clean-out Solution Drum

Note: All above is considered one work area

BI	additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add and shown in the process block flow diagram in question 7.01 or s question and complete it separately for each process type.
<u>_</u> j	Process type	Batch - Polyurethane Polymerization
	Work Area ID	Description of Work Areas and Worker Activities
	1	Pumping TDI/Amine solutions to mixer, filling tires through valve stem with polyurethane, and cleaning hosing with alcohol
	2	with alcohol
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
		•
		·

[-]	Process type	2	Batch - Pol	ess typo			
	Work area	•					
			Mode		(Dh.s)	4	
	Labor Category	Number of Workers Exposed	of Exposu (e.g., dir skin conta	rect	Physical State of Listed Substance	Average Length of Exposure Per Day <sup>2</sup>	Number o Days per Year Exposed
	NOT			***************************************			
	APPROBLE						-
	CLOSED SYS	TEM					•
						- 144 ·	
							-
					The state of the s		
		-					
				***************************************			
	lico the fel	1					
	the point o	lowing codes to f exposure:	designate th	ie physic	cal state of	the listed su	ıbstance at
	tempe GU = Gas ( tempe	condensible at rature and presuncondensible a rature and presuces fumes, vapo	ssure) it ambient ssure;	AL = OL =	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% vater, l	uid uid Liquid ases, e.g.,	
	<sup>2</sup> Use the fol	lowing codes to	designate av	verage le	ength of expo	sure per day:	
	A = 15 minu B = Greater exceedi C = Greater		es, but not	D = ( E = (	Greater than exceeding 4 h	2 hours, but nours 4 hours, but nours	not

9.07	Weighted Average (7	egory represented in question 9.06 (WA) exposure levels and the 15-min stion and complete it separately for	nute peak exposure levels.
<u>CBI</u>			
[_]	Process type	Batch - Polyurethane Polymer	rization
	Work area		1
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	*	*	*
	Control Assert Control		
*			
No	tests have been con	ducted	

]	No monitor worker exposure available							
-	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples <sup>1</sup>	Analyzed In-House (Y/N)	Number of Years Record Maintained	
	Personal breathing zone							
	General work area (air)				***************************************			
	Wipe samples		****				•	
	Adhesive patches	*****						
	Blood samples							
	Urine samples							
	Respiratory samples							
	Allergy tests							
	Other (specify)							
	Other (specify)							
	Other (specify)						***************************************	
			-					
	<sup>1</sup> Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	ıl hygieni er		o takes the	monitori	ng samples:	· · · · · · · · · · · · · · · · · · ·	

Sample Type	<u>S</u>	ampling and Analyti	ical Methodolo	gy			
NA							
	-			, , , , , , , , , , , , , , , , , , ,			
If you conduct personal a	nd/or ambient	air monitoring for	the listed s	ubstance,			
specify the following inf	not conduct	each equipment type	e used.				
	ection Limit <sup>2</sup>	V 6	Averaging				
			Time (hr)	Model Numb			
				•			
<sup>1</sup> Use the following codes	to designate p	personal air monito	ring equipmen:	types:			
<pre>A = Passive dosimeter B = Detector tube</pre>							
C = Charcoal filtration	tube with pump	p					
D = Other (specify)							
Use the following codes to designate ambient air monitoring equipment types:  E = Stationary monitors located within work area							
E = Stationary monitors located within work area F = Stationary monitors located within facility							
G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify) I = Other (specify)							
use the following codes i	to designate d	detection limit uni	ts:				
A = ppm B = Fibers/cubic centimes	ter (f/cc)						
C = Micrograms/cubic mete	er (µ/m³)						

	Test Descri		ts conducted	(weekly,	Frequency monthly, yea	rly, etc.)
· · · · · · · · · · · · · · · · · · ·		W				
						1.101.01.000
				Andrew Control of the		
-				<del></del>	-	
	<i>₹</i>					
					•	

None   Batch - Polyurethane Polymerization		to the listed substance. Pherocess type and work area.	notocopy this c	<u></u>	lete it separat	ely for each
Work area		_				
Work area  Used Year Upgraded Year Engineering Controls (Y/N) Installed (Y/N) Upgraded  Ventilation:  Local exhaust General dilution Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment	ſ_1					
Engineering Controls (Y/N) Installed (Y/N) Upgraded  Ventilation:  Local exhaust  General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Work area		• • • • • • • • • • • • • • • • • • • •		
Local exhaust  General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Engineering Controls				Year Upgraded
General dilution  Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Ventilation:				
Other (specify)  Vessel emission controls  Mechanical loading or packaging equipment		Local exhaust				•
Vessel emission controls  Mechanical loading or packaging equipment		General dilution				
Mechanical loading or packaging equipment		Other (specify)				
packaging equipment		Vessel emission controls				
Other (specify)						
		Other (specify)				
	*	Nadi 43 I				
***		Not aware that any engineering	g controls are	needed		
	*	Not aware that any engineering	g controls are	needed		

[ ] Mark (X) this box if you attach a continuation sheet.

.13 BI	Describe all equipment or process modifications you have prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modithe percentage reduction in exposure that resulted. Photomplete it separately for each process type and work are	tion of worker exposure to fication described, state ocopy this question and
_]	Process type Batch - Polyurethane Polymeriza	tion
	Work area	1
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
		•
	No Modifications	

	D :1 .:			
9.14	in each work area i	al protective and safety equi n order to reduce or eliminat py this question and complete	e their exposure to	the listed
CBI	and work area.	py this question and complete	it separately for	each process typ
	Process type	Batch - Polyurethane	Polymerization	
ιյ				
	work area	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	1
			Wear or Use	
		Equipment Types	(Y/N)	
		Respirators	<del></del>	
		Safety goggles/glasses	4	
		Face shields	7	
		Coveralls		
		Bib aprons	4	
		Chemical-resistant gloves	<del></del>	
		Other (specify)		
		LAMANS FAN	4	

	complete	it separately for each pro	of the fit t cess type.	ests. Pho	espirators we tocopy this o	question and		
BI —	Process type Batch - Polyurethane Polymerization							
1	Work Area	Respirator Type	Average _Usage <sup>1</sup>	Fit Tested	Type of Fit Test <sup>2</sup>	Frequency of Fit Tests		
		NOT APPLICABLE		<u>(Y/N)</u>	———	(per year)		
		CLOSED SYSTEM				•		
	E = 0 th <sup>2</sup> Use the $QL = Qu$	e a year er (specify)  following codes to designa  alitative antitative	ite the type	of fit tes	s <b>t:</b>			

	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.								
<u>_</u> ]	Process type Batch - Polyurethane Polymerization								
	Work area								
	Area is not restri	cted							
	Process type 1  Work area			1					
		Less Than	1-2 Times	3-4 Times					
	Housekeeping Tasks	Once Per Day	Per Day	Per Day	More Than 4 Times Per Day				
	Housekeeping Tasks Sweeping	Once Per Day	Per Day						
		Once Per Day	Per Day						
	Sweeping	Once Per Day	Per Day						
	Sweeping	Once Per Day	Per Day						

9 21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance:
\	Routine exposure
	Yes
	Emergency exposure
	Yes
	If yes, where are copies of the plan maintained?
\	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	(Yes)
	No 2
	If yes, where are copies of the plan maintained? WINGFIL ARPA OFFICE
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes
	(No)2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier
	OSHA consultant
[_]	Mark (X) this box if you attach a continuation sheet.

## SECTION 10 ENVIRONMENTAL RELEASE

## General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area $(2)$
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area $(6)$
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway 9
	Other (specify)

	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.	nd longitude or Un	ntral point wher iversal Transver	se Mercader
	Latitude		<u> </u>	5,38
	Longitude	•••••	67 . 0	4,22
	UTM coordinates Zone	, Norti	ning, E	asting
10.03	If you monitor meteorological cond the following information.	itions in the vicin	nty of your fac	ility, provid
	Average annual precipitation	·\		inches/y
	Predominant wind direction			
<b>\</b>			_	`
10.04		below your facility	J .	
	Indicate the depth to groundwater  Depth to groundwater			meders
10.05	Indicate the depth to groundwater	indicate (V/N/NA)		
10.05 CBI	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen	indicate (Y/N/NA) at. (Refer to the		eases of the a definition
10.05 CBI	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)	indicate (Y/N/NA) at. (Refer to the	all routine releginstructions for	eases of the a definition
	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity	indicate (Y/N/NA) at. (Refer to the second	all routine releginstructions for vironmental Relegions	eases of the a definition
10.05 CBI	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity  Manufacturing	indicate (Y/N/NA) at. (Refer to the service Env. Air NA	all routine releginstructions for vironmental Relegions NA	eases of the a definition case  Land  NA
	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity  Manufacturing  Importing	indicate (Y/N/NA) at. (Refer to the service Air  NA  NA	all routine releginstructions for vironmental Relegions Vater  NA  NA	eases of the a definition tase  Land  NA  NA
10.05 CBI	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing	indicate (Y/N/NA) at. (Refer to the Environment NA NA NA	all routine releginstructions for vironmental Relegions NA NA NA	eases of the a definition wase Land NA NA
10.04 10.05 CBI	Indicate the depth to groundwater  Depth to groundwater  For each on-site activity listed, listed substance to the environmen Y, N, and NA.)  On-Site Activity  Manufacturing  Importing  Processing  Otherwise used	indicate (Y/N/NA) at. (Refer to the service of the	all routine releginstructions for vironmental Relegions NA NA NA NA NA NA NA	eases of the a definition wase Land NA NA NA NA NA

10.06 CBI	Provide the following information for the listed sof precision for each item. (Refer to the instruction example.)	substance and spections for furth	pecify the level ner explanation and
[_]	Quantity discharged to the air	NA	kg/yr <u>+</u> %
	Quantity discharged in wastewaters	NA	kg/yr <u>+</u> %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u> %

10.08 CBI	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.					
[_]	Process type	Batch - Polyurethane Polymerization				
	Stream ID Code	NA - Essential a closed system <u>Control Technology</u>	Percent Efficiency			
[_]	Mark (X) this box if yo	ou attach a continuation sheet.				

PART I	RELEASE TO AIR	
10.09 <u>CBI</u> [_]	substance in terms of residual treatment bl source. Do not inclu sources (e.g., equipm for each process type	s Identify each emission point source containing the listed a Stream ID Code as identified in your process block or ock flow diagram(s), and provide a description of each point de raw material and product storage vents, or fugitive emission ent leaks). Photocopy this question and complete it separately.  Batch - Polyurethane Polymerization
	Process type	
	Point Source ID Code	Description of Emission Point Source
		NA
		IVA
		-

<sup>71/</sup> 

_] _]			Stack	NA				
	Point Source ID Code	Stack Height(m)	Inner Diameter (at outlet) (m)	Exhaust Temperature		Building	Building	Vent
		neight(m)		(°C)	(m/sec)	Height(m)	Width(m) <sup>2</sup>	Туре
			-					
		70 31						
	<del></del>	***************************************						•
	·						<del></del>	
			***************************************					
			-			· · · · · · · · · · · · · · · · · · ·	***	
	·							
	<sup>1</sup> Height o	f attached	or adjacent	building				
	<sup>2</sup> Width of attached or adjacent building							
	<sup>3</sup> Use the	following o	codes to des	ignate vent	type:			
	H = Hori							
	V = Vert	ical						

0.12 BI	distribution for each Point Source 1	in particulate form, indicate the particle size ID Code identified in question 10.09. e it separately for each emission point source.			
[_]	NA Point source ID code				
	Size Range (microns)	Mass Fraction (% ± % precision)			
	< 1				
	≥ 1 to < 10				
	≥ 10 to < 30	•			
	≥ 30 to < 50				
	≥ 50 to < 100				
	≥ 100 to < 500				
	≥ 500				
		Total = 100%			
	•				

10.13 <a href="#">CBI</a>	Equipment Leaks Complet types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed process, give an overall p exposed to the listed subs for each process type.	weight percest each procest low diagram(s substance. I	ent of the stype in this interest.	e listed dentified ot includ s a batch	nd which substance in your e equipme or inter	are in se passing process b nt types mittently	rvice through lock or that are operated
[_]	Process type Ba	tch - Polvure	thane Po	l vmerizat:	ion		
	Percentage of time per yea	r that the li	stad sub	stance is		to this p	rocess
	type	• • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • • •	· · · · · · · · _	_15%
		Number	of Compos of Lister	nents in d Substan	Service by	y Weight :	Percent.
	Equipment Type	ress					Greater
	Pump seals <sup>1</sup>	than 5%	5-10%	11-25%	26-75%	76-99%	than 99%
	Packed	.1					
	Mechanical		****				
	Double mechanical <sup>2</sup>						
	Compressor seals <sup>1</sup>	<del></del>		<del></del>	-		
	Flanges	<del></del> _		<del> </del>			
	Valves						
	Gas <sup>3</sup>						
	Liquid	1					
	Pressure relief devices (Gas or vapor only)				· · ·		· 1
	Sample connections						
	Gas						
	Liquid		<del></del>				
	Open-ended lines <sup>5</sup> (e.g., purge, vent)			77374.			7
	Gas						
	Liquid		•				
	<sup>1</sup> List the number of pump ar compressors	d compressor	seals, r	ather that	an the nur	nber of pu	imps or
10.13	continued on next page						

SLines closed during normal operation that would be used during maintenance operations  10.14 Pressure Relief Devices vith Controls Complete the following table for the pressure relief devices is are controlled. If a pressure relief device is not contenter "None" under column c.	10.13	(continued)								
*Report all pressure relief devices in service, including those equipped vi control devices  *Lines closed during normal operation that would be used during maintenance operations  10.14 Pressure Relief Devices vith Controls Complete the following table for the pressure relief devices in service are controlled. If a pressure relief device is not contenter "None" under column c.		will detect failure of th	ffing box pressure a e seal system, the b	ind/or equipped vi	th a sensor (S) that					
SLines closed during normal operation that would be used during maintenance operations  10.14 Pressure Relief Devices vith Controls Complete the following table for the pressure relief devices is are controlled. If a pressure relief device is not contenter "None" under column c.		<sup>3</sup> Conditions existing in the valve during normal operation								
Pressure Relief Devices with Controls Complete the following table for the pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not contenter "None" under column c.		<sup>4</sup> Report all pressure relief devices in service, including those equipped with								
pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not contenter "None" under column c.  a. NA b. c. d.  Number of Percent Chemical Estime Pressure Relief Devices in Vessel Control Device Control Effective Pressure Relief Devices in Vessel Control Device Control Effective Pressure Relief Devices in Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Pressure Relief Devices In Vessel Control Device Control Effective Pressure Relief Devices In Vessel Pressure Relief Device In Vessel Pressure Relief Devices In Vessel		<sup>5</sup> Lines closed during norma operations	l operation that wou	ald be used during	maintenance					
Number of Percent Chemical Estim Pressure Relief Devices in Vessel¹ Control Device Control Eff  1 Refer to the table in question 10.13 and record the percent range given und heading entitled "Number of Components in Service by Weight Percent of List Substance" (e.g., <5%, 5-10%, 11-25%, etc.)  2 The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operaconditions	CBI	devices in service are con	entified in 10.13 to trolled. If a press	indicate which n	reccure relief					
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.	1	a. Number of	Percent Chemical		d. Estimated Control Efficiency <sup>2</sup>					
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.		·								
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.										
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.					-					
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.										
Substance" (e.g., <5%, S-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 100 percent for equipment leaks convith rupture discs under normal operating conditions. The EPA assigns a coefficiency of 98 percent for emissions routed to a flare under normal operations.										
efficiency of 98 percent for emissions routed to a flare under normal operaconditions		Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., <5%, 5-10%, 11-25%, etc.)								
Mark (X) this box if you attach a task a	:	efficiency of 98 percent for	ormal operating cond	itions. The EPA:	assions a control					
[_] Mark (X) this box if you attach a continuation sheet.	[_] !	Mark (X) this box if you at	tach a continuation	sheet.						

] P	rocess type			• • • • • • • • • •	Batch - Po	olyurethane 1	201 smoni a o + :
	-	Leak Detect					. Orymerizat.
E	quipment Type	Leak Detection  Concentration (ppm or mg/m³)  Measured at  Inches  from Source		Detection Device	Frequency Repairs of Leak Initiated Detection (days after (per year) detection)		
Pı	ump seals						
	Packed Mechanical	NOT	APPL	ICABLE	- (LOS	ED SYST	EM ) .
C	Double mechanical _ ompressor seals _			-			
F	langes		i				-
V	alves						
	Gas		# # #				
	Liquid				- Intonse		
P	ressure relief devices (gas or vapor only)						
S	ample connections						· · · · · · · · · · · · · · · · · · ·
	Gas						
	Liquid						
0	pen-ended lines						
	Gas		Ž				
	Liquid		:				
]	Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	odes to desig unic vapor an	nate d alyzer	etection de			

		NA .						
	10.16 Raw Material, Intermediate and Product Storage Emissions Complete the following table by providing the information liquid raw material, intermediate, and product storage vessel containing the listed substance as identified in your proCBI or residual treatment block flow diagram(s).							
Mark (X) this box if you attach a continuation sheet.		Operat- Vessel Vessel Vessel ing Floating Composition Throughput Filling Filling Inner Vessel Vessel Vessel Design Vent Control Basis Vessel Roof of Stored (liters Rate Duration Diameter Height Volume Emission Flow Diameter Efficiency for Type Seals Materials per year) (gpm) (min) (m) (m) (1) Controls Rate (cm) (%) Estimate						
		**Use the following codes to designate vessel type:  **IUse the following codes to designate vessel type:  **IPS						

10.23	3 Indicate the date and time when the release occurred and	d when the release ceased or
	<pre>was stopped. If there were more than six releases, atta list all releases.</pre>	ach a continuation sheet and

Release		Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1			-	*	
2		TGU	APPLICABLE - NO	LEAKS	
3	į.				
4				-	-
5			-		•
6					

10 24 Specify the weather conditions at the time of each release.

	Wind Speed	Wind	Humidity	Temperature	Precipitation
Release	(km/hr)	Direction	<u>(%)</u>	(°C)	<u>(Y/N)</u>
1	`				
		7	<del></del>		
2					
2				\	
3	<del></del>			\	
4					
5			\		
6					
\ <u></u>	<del></del>	<del></del>	<del>\</del>		
					`
				\	

[ ] Mark (X) this box if you attach a continuation sheet.

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Fold at line over top of envelope to the right of the return address.

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